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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------------|----------------------------|----------------------|---------------------|------------------|
| 10/578,776 | 07/18/2006 | Hiroshi Sakurai | Q94801 | 6191 |
| 23373 SUGHRUE MI | 7590 06/23/200 ON. PLLC | EXAMINER | | |
| 2100 PENNSY | LVANIA AVENUE, N | MATZEK, MATTHEW D | | |
| SUITE 800 WASHINGTON, DC 20037 | | | ART UNIT | PAPER NUMBER |
| | | | 1794 | |
| | | | | |
| | | | MAIL DATE | DELIVERY MODE |
| | | | 06/23/2009 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | Application No. | Applicant(s) | | | |
|--|---|--|----------------|--|--|--|
| Office Action Summary | | 10/578,776 | SAKURAI ET AL. | | | |
| | | Examiner | Art Unit | | | |
| | | MATTHEW D. MATZEK | 1794 | | | |
| | The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | | | | | | |
| 1)⊠ | Responsive to communication(s) filed on 09 M | lav 2006 | | | | |
| · · · · · · · · · · · · · · · · · · · | Responsive to communication(s) filed on <u>09 May 2006</u> . This action is FINAL . 2b) This action is non-final. | | | | | |
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| • | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1955 C.D. 11, 455 C.G. 215. | | | | | | |
| Dispositi | on of Claims | | | | | |
| 4) Claim(s) 1-47 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-47 are subject to restriction and/or election requirement. | | | | | | |
| Application | on Papers | | | | | |
| 9) 🗆 - | The specification is objected to by the Examine | r. | | | | |
| 10) 🔲 - | Γhe drawing(s) filed on is/are: a)∏ acc | epted or b)□ objected to by the E | Examiner. | | | |
| | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority u | nder 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| | e of References Cited (PTO-892) | 4) Interview Summary | | | | |
| 3) 🔲 Inform | e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) · No(s)/Mail Date | Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other: | | | | |

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DETAILED ACTION

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Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-15, drawn to a nonwoven fabric of carbon fibers with diameters ranging from 0.01 to 1 micron.

Group 2, claim(s) 16-19, drawn to a precursor for fuel cell electrodes.

Group 3, claim(s) 20-27, drawn to an electrode material.

Group 4, claim(s) 28-31, drawn to a composite material comprising a matrix and nonwoven fabric.

Group 5, claim(s) 32-34, drawn to a metal-carrying nonwoven fabric or metal-carrying pulverized material.

Group 6, claim(s) 35 and 36, drawn to a filter substrate.

Group 7, claim(s) 37-47, drawn to a method of producing a nonwoven fabric of carbon fibers.

- 2. The inventions listed as Groups 1-7 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the corresponding special technical feature, a nonwoven fabric comprising an aggregate of carbon fibers having a diameter of 0.01 to 1 micron does not make a contribution over the prior art. Chen et al. (US 6,495,258 B1) disclose a nonwoven network of carbon nanotubes (claim 1), and said nanotubes have a diameter ranging from 0.005 to 0.020 micron (col. 2, lines 1-13).
- 3. A telephone call was made to Joseph J. Ruch Jr. on 6/19/2009 to request an oral election to the above restriction requirement, but did not result in an election being made.

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Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW D. MATZEK whose telephone number is (571)272-2423. The examiner can normally be reached on M-F, 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Tarazano can be reached on 571.272.1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Matthew D Matzek/ Examiner, Art Unit 1794 /D. Lawrence Tarazano/ Supervisory Patent Examiner, Art Unit 1794